

Claim listing.

Claim 1 (original): A safety winged set comprising:

a winged needle, provided with one lateral piece extending from two lateral sides of the winged needle body, respectively, wherein said winged needle body is fitted with an injection needle at the front end thereof, and a flexible tube is connected with the rear end of said winged needle ;

a winged needle cover, provided with several gliding slots on one or both sides thereof corresponding to the positions of said lateral pieces of said syringe, wherein on the upper end of one side gliding slot and the lower end of the other side gliding slot, an accommodating slot is provided, respectively, and said winged needle cover is provided with a holding portion on one side thereof.

Claim 2 (original): The safety winged set according to claim 1, wherein said lateral piece is provided on one lateral side of said winged needle body.

Claim 3 (original): The safety winged set according to claim 1, wherein each lateral piece is provided with a bent portion adjacent to said winged needle body.

Claim 4 (original): The safety winged set according to claim 1, wherein a protruding part is provided on the connecting portion of said accommodating slot and said gliding slot.

Claim 5 (original): The safety winged set according to claim 1, wherein no accommodating slot is provided on the upper end of said winged needle cover, said holding portion is provided with a protruding fastener, and said lateral piece of said winged needle is provided with a fastening hole at a position corresponding to said protruding fastener.

Claim 6 (original): The safety winged set according to claim 5, wherein said fastening holes on said holding portion can be replaced by said protruding fastener, whereas said protruding fastener on said lateral piece can be replaced by said fastening hole.

Claim 7 (original): The safety winged set according to claim 1, wherein a spring is sleeved on the rear portion of said syringe, a ring portion is fixed against the rear end of said spring, a hook extending from the rear end of said winged needle cover is engaged with the rear wall surface of said ring portion, and said winged needle cover is provided with a protruding block at the interior edge of the rear end thereof.

Claim 8 (original): The safety winged set according to claim 1, wherein said winged needle cover is provided with a protruding block at the interior edge of the rear end thereof.

Claim 9 (original): The safety winged set according to claim 1, wherein a spring is sleeved on the rear portion of said syringe, a ring portion is fixed against the rear end of said spring, several fastening holes are provided on said ring portion, said lateral piece of said winged needle is provided on said lateral side of said winged needle cover, several resilience pieces extending from the rear end of said winged needle cover have protruding fasteners on the interior edges at the front and the rear ends thereof, respectively.

Claim 10 (original): The safety winged set according to claim 9, wherein several protruding fastener are provided on said ring portion, and each resilience piece is provided with a fastening hole on the rear end thereof.

Claim 11 (original): The safety winged set according to claim 9, wherein no fastening hole is provided on said ring portion, and said protruding fastener on the front and rear ends of said resilience piece is replaced by a hook.

Claim 12 (original): The safety winged set according to claim 1, wherein said holding portion of said winged needle cover is provided on the outer periphery of said syringe1, said lateral piece of said winged needle is provided on the lateral side of said winged needle cover, said winged needle cover is provided thereon with said gliding slot for said holding portion of said winged needle to penetrate therethrough, at the front and the rear ends of said gliding slot, an accommodating slot is provided, respectively, and a protruding part is provided on the connecting portion of said accommodating slot and said gliding slot.

Claim 13 (original): The safety winged set according to claim 12, wherein no accommodating slot is provided on the front and the rear ends of said gliding slot of said winged needle cover, said lateral piece of said winged needle cover is provided with said fastening hole, said holding portion of said winged needle at its side edge is provided with said protruding fastener to be engaged with said fastening hole, one or more fastening pieces are provided on the rear end of said gliding slot, and said fastening piece is provided with said fastening hole to be engaged with the protruding fastener of said holding portion.

Claim 14 (original): The safety winged set according to claim 13, wherein no accommodating slot is provided on said lateral piece of said winged needle cover, at the rear end of said lateral piece on one side of said winged needle cover, a stopping piece extends upwardly therefrom, and only one side of said holding portion is provided with a protruding fastener at the position corresponding to said fastening hole of said fastening piece.

Claim 15 (original): The safety winged set according to claim 14, wherein said lateral piece of said winged needle cover without said stopping piece is provided with a fastening aperture.

Claim 16 (original): The safety winged set according to claim 13, wherein an aperture is provided on the lateral edge of said gliding slot and extends to the lateral edge of said winged needle cover, a fastening piece is extended from said aperture, a stopping fastener is provided on said fastening piece, and said protruding fastener on said holding portion of the winged needle is replaced by said fastening hole.

Claim 17 (original): The safety winged set according to claim 16, wherein no fastening hole is provided on said holding portion of said syringe, no fastening piece and no aperture is provided on said winged needle cover, on the upper or lower end of said gliding slot adjacent to the rear end thereof, an accommodating slot is provided, and a protruding part is provided on the connecting portion of said accommodating slot and said guiding slot.

Claim 18 (original): The safety winged set according to claim 1, wherein said gliding slot of said winged needle cover penetrates through the rear end of said winged needle cover, said gliding slot is provided with a stopping block at a position adjacent to the rear end thereof, the front wall surface of said stopping block is perpendicular to said gliding slot, and the rear wall surface of said stopping block is an incline.

Claim 19 (original): The safety winged set according to claim 1, wherein on the upper end of said gliding slot of said winged needle cover, there is a guiding track connected to a guiding slot, a protruding part is provided on the connecting portion of said guiding track and said gliding slot, and on the rear end of the gliding slot, a stopping block is provided to partition an accommodating portion at the rear end of said gliding slot.

Claim 20 (original): The safety winged set according to claim 1, wherein the rear end of said winged needle is connected to an inserting tube to be inserted into said test

tube via said flexible tube, and a clamp portion is provided on the rear end of said inserting tube.

Claim 21 (original): The safety winged set according to claim 20, wherein a test tube cap is sleeved on the opening end of said test tube, several claw-shaped clamping heads are provided on the rear end of said test tube cap, said claw-shaped clamping heads compress with each other to form seal, a guiding slot is provided on the front end of said test tube cap and connected with the rear ends of said claw-shaped clamping heads, and the wall surface of said guiding slot is an incline tapered inwardly.

Claim 22 (original): The safety winged set according to claim 21, wherein the outer periphery of said guiding slot is provided with a membrane.

Claim 23 (original): The safety winged set according to claim 22, wherein said membrane at the outer periphery of said guiding slot is replaced by a cap.

Claim 24 (original): The safety winged set according to claim 1, wherein said lateral piece of said winged needle is provided with one or more suckers at the lower portion thereof, and said sucker is replaced by viscose or other adhesive materials having viscous properties.

Claim 25 (original): The safety winged set according to claim 1, wherein said holding portion of said winged needle or said fastening piece of said winged needle cover is provided a sucker, and said sucker is provided on the rear and lower portion of said syringe.

Claim 26 (original): The safety winged set according to claim 20, wherein no clamp portion is provided at the rear end of said inserting tube, an interposing element is provided within said inserting tube, a holding element is provided around the

periphery of said interposing element, said interposing element is provided with a flow-directing hole penetrating therethrough, a ring protruding stopper is provided on the interior wall surface of said inserting tube at the front and rear ends of said holding element, and a non-return structure constructed of several blades is provided behind said ring protruding stopper at the rear end of said inserting tube.

Claim 27 (original): The safety winged set according to claim 20, wherein no non-return structure is provided within said inserting tube, a spring is sleeved around the outer periphery of said inserting tube at the rear end thereof, the front end of said spring is connected to the rear end of said holding element of said interposing element, the rear end of said spring is fixed against the front end of said ring protruding stopper at the rear end of said inserting tube, and no flow-directing hole is provided on said interposing element.

Claim 28 (original): The safety winged set according to claim 27, wherein no interposing element is provided within said inserting tube, no ring protruding stopper is provided on the interior wall of said inserting tube, and said non-return structure is directly provided on the interior wall of said inserting tube at the front end.

Claim 29 (original): The safety winged set according to claim 28, wherein no interposing element is provided within said inserting tube, no ring protruding stopper is provided on the interior wall of said inserting tube, and said non-return structure is directly provided on the interior wall of said inserting tube at the front end.

Claim 30 (original): The safety winged set according to claim 27, wherein said holding element is provided on the rear end or the middle outer periphery of said interposing element, and said ring protruding stopper at the front end of said holding element of said inserting tube extends to the front end of said inserting tube.

Claim 31 (original): The safety winged set according to claim 1, wherein the outer periphery at the front end of said winged needle cover is attached thereto a bent piece, and a hemostatic cotton is connected to the upper end of said bent piece.

Claim 32 (original): The safety winged set according to claim 31, wherein an inserting bar extends from the lower portion of said bent piece 211, and an inserting hole to be inserted by said inserting bar is provided on said winged needle cover.

Claim 33 (original): The safety winged set according to claim 32, wherein said inserting bar at the lower portion of said bent piece is replaced by a hook, and a shaft bar to be engaged with said hook is provided on said winged needle cover 2.

Claim 34 (original): The safety winged set according to claim 33, wherein a shaft hole is provided at the lower portion of said bent piece to be sleeved on said shaft bar.

Claim 35 (new): A safety winged set comprising:

- a needle provided with a needle body and at least one holding portion extending from the periphery of said body and wherein said needle body is fitted with an injection needle at the front end thereof, and a flexible tube connected with the rear end of said needle;

- a winged needle cover provided with at least one gliding slot on at least one side thereof corresponding to said holding portion of said needle.